

# "Use of electron tubes in experimental physics" by A.M.Bonc-Brujevic, Reviewed by A. Vrba. Jemma mech opt 5 no.3:103-104 Mr 160.

KOPACOVA, L., VRBA, C.

Studies on local anasthetics. Fart 26. Ceek. farm. 14 no.6: 322-326 Ag 165.

1. Katedra farmakodynaniky a texikologie farmaczeticke fakulty Univerzity Komenskaho, Bratislava a Statni vezerinarni ustav, sekce kontroly leciv, Brac. Eubmitted Hovember 1/1, 1964.

KOPACOVA, L.; VRBA, C.

CSSR

Chair of Pharmodynamics and toxicology of the pharmaceutical faculty, Momenius University, Bratislava, and State Veterinary Institute, section for the control of veterinary drugs, Brno (Katedra farmakodynamiky a toxikologie farmaceuticke fakulty UK v Bratislave, Statni veterinarni ustav, sekce kontroly veterinarnich leciv v Brno) (for both)

Bratislava, Farmaceuticky Obzor, No 1, 1963, pp 1-6

"A short Summary of Laboratory Mothods to Evaluate the Depot-Local Amestesia"

(2)

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210015-5"

CZECHOSLOVAKIA

VODRAZKA, J., Docent Dr; VRBA, C., Dr; JELINEK, J., Dr.

Kosice (for Vodrazka); Erno (for Vrba); Prague (for Jelinek)

Prague, Veterinaretvi, No 3, 1963, pp 128-129

"Present State of Mass Production of Veterinary
Medicines and Further Development in This
Direction."

VKBA C.

CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Author : Karel Palat, Ales Dekera, Cenek Vrba.

Inst

Title : Study of Local Anesthetics. X. Basic Complex

Esters of Diphenylcarbamic Acids.

Orig Pub: Chem listy, 1957, 51, No 3, 563-567; Sb. chekhosl. khim. rabot, 1957, 22, No 3, 825-830.

Abstract: m-Iodophenylbutyl ester, yield 64%, boiling point 131 to 1320/7 mm, and n-iodophenylbutyl ester, yield 76%, boiling point 104 to 1060/0.5 mm, were synthetized of corresponding amines. n-Bromophenetole, boiling point 91 to 93 /5mm, was synthetized

Card 1/7

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CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: of the aromatic halogen derivative with 0.15 mole of alkoxyaniline in the presence of 1g of active Cu in the duration of 3 to 6 hours to from 200 to 210° at a periodical addition of fresh catalyst; 2/ by alkylating 0.1 mole of oxy- or dioxydiphenyl-amine with 0.11 or 0.22 mole of diethylsulfate in the presence of 20%-ual KOH; 3/ by adding the Na salt (prepared by aging Na-alcoholate with 0.1 mole of the corresponding oxydiphenylamine in alcohol solution for 12 hours) to 0.11 mole of butyl iodide and boiling it 3 hours. The R-s and R's constituting the I, the yields by the methods 1, 2, and 3,

Card 3/7

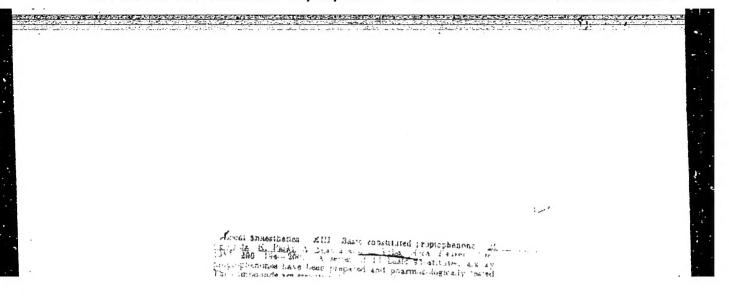
CZECHOSLOVAKIA / Organic Chemistry. Synthetic Organic Chemistry.

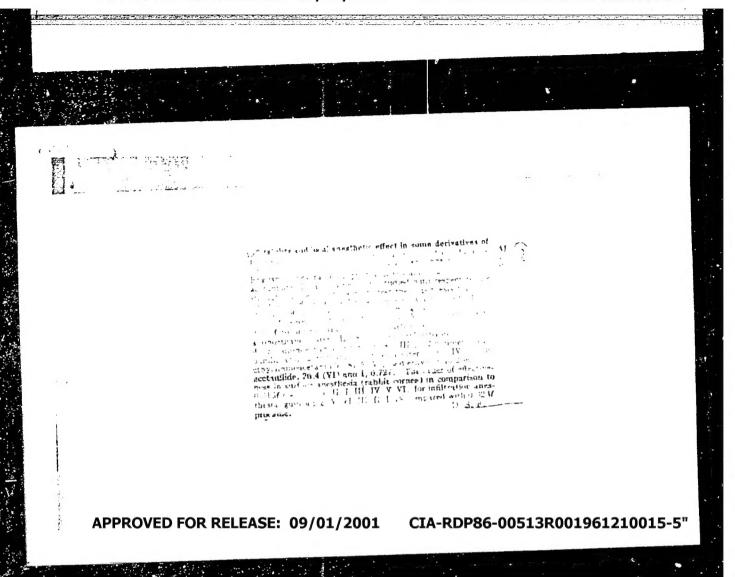
G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 60921.

Abstract: point; acid chlorides of substituted diphenyl-carbamic acids RC6H4N(C6H4R')COCl are produced; the R-s and R'-s, 'the yield in % and the melting points in °C (from alcohol) are presented in the following: 4-C2H5O, H, 87, 126 to 127; 4-C4H9O, H, 86, 62; 4-C2H5O, 4-C2H5O, 76, 101; 4-C4H9O, 4-C4H9O, 76, 78. RC6H4N(C6H4R')COCH2CH2N(C2H5)2-s (II) were prepared by boiling (1 hour) Na-diethyl-amineettylate with the corresponding acid chloride. The R-s and R'-s, the yield in %, the boiling points in °C/mm, and the melting points of the

Card 5/7





VRBA, C.; LEBDUSKA, J.; SEKERA, A.

BOOK TO SEE THE SECOND

Studies on local anesthetics; pharmacological evaluation of active basic esters of substituted carbamic acids. Gesk. farm. 1 no.10:554-563 1952. (GIML 23:4)

1. Of the Institute of Pharmacology of the Veteringry School and of the Institute of Pharmaceutical Chemistry of Masaryk University, Brno.

 SEREKA, A.; JAKUBEC, I.; KRAL, J.; VRBA, C.

Anesthesia with carbanic acid series preparation. Cas.cesk.lek. Ved.priloha 63 no.9-12:293-297 Dec 1950. (CIML 20:9)

1. Of the Institute of Pharmaceutical Chemistry of Masaryk University in Brno and of Institute of Pharmacology of the Veterinary School in Brno.

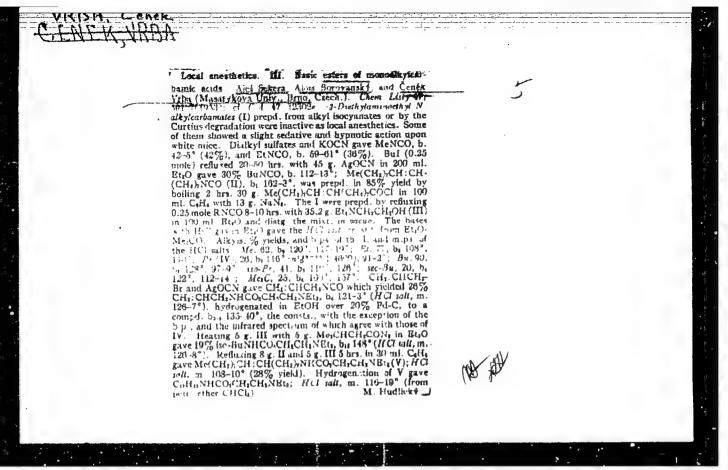
KLIMES, B., doc. MVDr.; VRBA, Conek, "VDr.; DOFEK, Rudolf, PhMr. CSc.; SLOVACEK, Stanislav, promovany veterinarni lekar

Biologic efficiency of nitrofurazone in relation to the stability of its aqueous solution. Veter medicina 9 no.1:39-42 Ja '64.

1. Chair of Poultry Diseases, Faculty of Veterinary Medicine, Brno and State Veterinary Institute, Department of Drug Control.

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001961210015-5

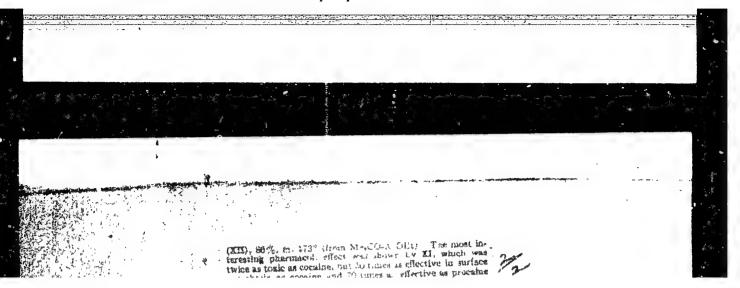


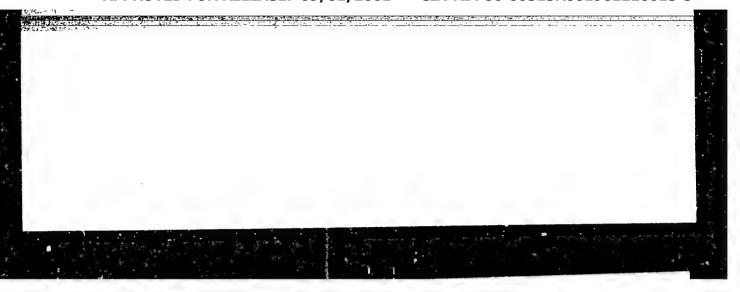
VRBA, C.; CELADNIK, M.; PALAT, K.

Local anesthetics from the group of basic propiophenones. In German. p. 51. Vol. 1, 1958.

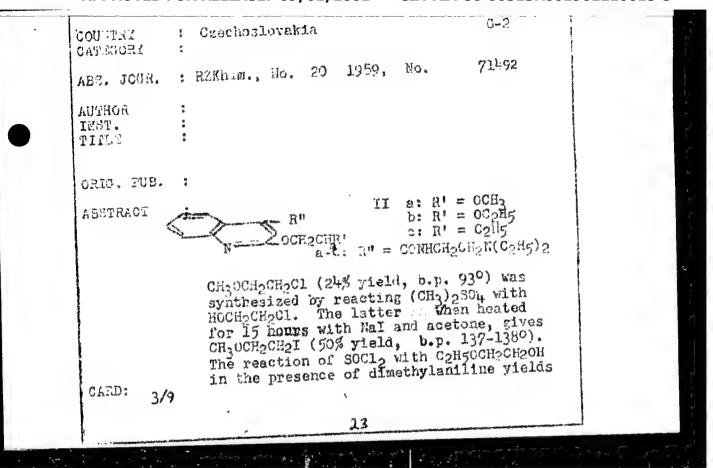
ACTA FACULTATIS PHARMACEUTICAE BRUNENSIS ET BRATISLAVENSIS. BRNO, Czechoslovakia. Vol. 1, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960. Uncl.





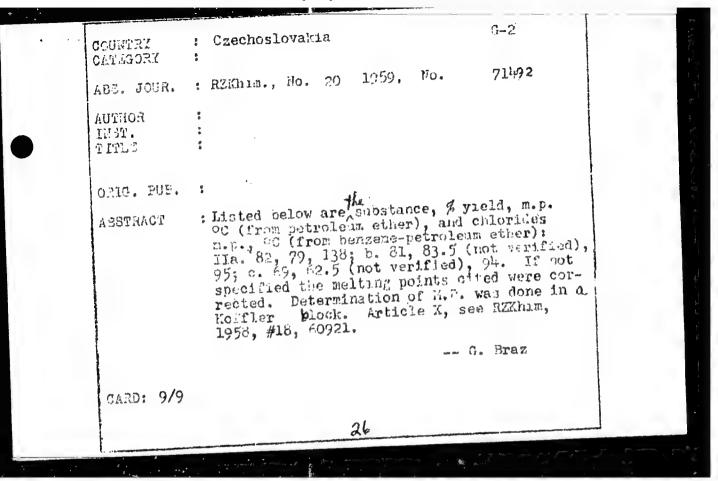
G-2 Czechoslovakia CATEGORY 71492 1959, : RZKhim., No. 20 ABS. JOUR. Sekera, A.; Pavlicek, R.; Vrba, C. AUTHOR Not given IEST. A Study of Local Anesthetics. Article IX. Synthesis of Some New β-Alkoxyethoxy-carban-ilates and of Aminated β-Alkoxyethoxyeinch-TITLE ORIG. PUB. Bull 3oc chim. France, 1959, #2, 401-404 \* In order to determine the relation between ABSTRACT the chemical structure and local anesthetic activity Tollowing substituted carbanilates were synthesized: RC6H4THC00CH2CH2N(C2H5)2 APPROVED FOR RELEASE: 09/01/2001H20 CIA-RDP86-00513R601961210015-5" c: R = 0 - C2H50CH2CH2O, d: R = m-C2H50CH2CH2CH2O, analogues of sevicaine bases (II a-b), and also sevicaine (IIc-base). Among I-chlorides the most active were found to be Ia and Ic chlorides, which had activities (surface GARD: 1/9 Ceskosl. farmac., 1958, 7, #8, 448-450.



G--2 Czechoslovakia COUNTRY CARLGORY : RZKhim., No. 20 1959, No. 71192 ABG. JOUR. SOFFUR IMST. TITLE ORIG. PUB. : 158/0.05; c, 64, 138/0.1; d, 71, 187/0.75, m.p. 54.50; e, 85, 172/0.25, m.p. 720; 1Va, 78, 110/0.16; b, 71, 112/0.11; c, 72, 93/0.05; d, 59, 110/0.05; e, 86, 101, 0.1; Va, 65, 82/0.07; b, 82, 91/0.11; c, 71, 90/0.21; d, 81, 125/0.06; e, 63, 96/0.07. In order to prepare I, V was heated in moisture-free toluene with an equimolar quantity of (CoHs) anchoos. Subsequent ASSTRACT quantity of (C2H5)2RCH2CH2OH. Subsequent addition of toluene solution of HCl precipitated I-chloride. If one fails to obtain chloride crystals the toluene solution may be extracted with 10% HC1. The extract CATD: 5/9 24

G-2 COUNTRY Czechoslovakia CATEGORY 71492 ABS. JOUR. ; AZKhim., No. 20 1959, No. AUTHOR IFST. TITLE ORIG. PUB. : may be then rendered alkaline with a solu-ABSTRACT tion of NaMCO3. The base may be finally extracted with ether and transformed into a picrate. Listed below are 5 yield of I and m.p., °C of its picrate (from alcohol): a. 13, 113; b. 13, 99; c. 22, 83; d. -, -, chlorides yield 485, m.p. 940 (from acetonecther), e. -, -, chlorides yield 52%, m.p. 1190 (from acotone-ether). (CoHe) 2NCH2CK in beluene (b.p. 61-63/14 mm) was reduced by the action of powdered Na and alcohol. (C2H5) NCH2CH2NG (VI) was thus obtained, 48% yield, b.p. 142-1440. The rate of reduction CARD:

G-2Czechoslovakia COUNTRY CATEGORY ABS. JOUR. : AZKhim., No. 20 1959, No. 71492 AUTHOR TMBT. TITLE onio. Pub. : : POCLy was distilled off and moisture-free ABSTRACT toluene was added to the residue. The mixture was then again distilled. The yield of 2-chlorocinchoning (VII-acid) was 86%, m.p. 820 (not verified, from toluene). Into a solution of an alcoholate composed of 24 moles Na, and 50 ml n-ChhoOH, ChaOChoCho H
(X) or Coh5Coh2Ch2OH Were added 7g of diethyl aminoethylamide-ViI, the mixture was then heated for 2.5 hours, and the corresponding II was isolated. (K was synthesized from CH3OH and ethylene oxide in the presence of conc. H2504, b.p. 123-1259). CARD: 8/9



KOPACOVA, L.; VRBA, C.; PIVNIK, J.; SKARDA, R.

Topical tolerance to local anesthetic effect of prolonged-action benzocaine solution behaving as a microcrystalline implant. Gesk. fysiol. 9 no.1:54-85 Ja 60.

1. Odd. farmakodynamiky a toxikologie farmaceuticke fak. MU. Ustav farmakologie a Ustav patologicke anatomie vet. fak. VSZL, Brno. (ANESTHETICS LOGAL pharmacol.)

VRBA, C.; KOPAC, F.; BOROVANSKY, A.; SOVA, J.

Gertain pharmacological properties of local anesthetics from the diethylaminoacetanilide group. Cesk. fysiol. 9 no.11:98-99 Ja 60.

1. Ustav farmakologie vet. fak. VSZL. Ustav farmaceuticke chemie farmaceut. fak. MU. Brno.

(ANDSTHETICS LOCAL pharmacol.)

#### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001961210015-5

VORA, C.

SEKERA,A.; HRUBY,J.; JARUBNC,I.; KRAL,J.; VRBA,C.; LEBDUSKA,J.

Local anesthetics. Basic esters of substituted carbamic scids [with summary in English]. Shor.Chekh.khim.rab. 18 no.6:870-879 D '53.

(MLRA 7:6)

1. Department of Pharmacoutical Chemistry of the University, and Pharmacological Department of the Veterinary School, Brno.

(Anexthetics) (Carbamic acid) (Esters)

VRBA, C., SEKERA, A., BOROVANSKY, A.

Vrba, C., Sekera, A., Borovansky, A. \*Studies in local anesthetics III. Basic esters of monoalklearbamic acids. p. 591 CASOPIS PRO PESTOVANI NATEMATIKY. CZECHOSLOVAK MATHEMATIGAL JOURNAL. Vol. 47, no. 4, Apr. 1953, Praha, Czechoslovakia.

SO: Monthly List of East European Accessions, LC., Vol. 3, No. 1, Jan. 1954, Uncl.

VRBA, C.

Czechoslovakia

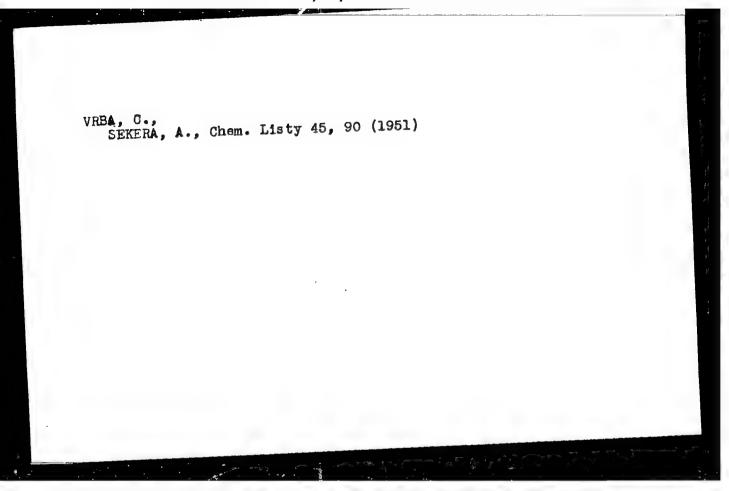
GA: 47:12635

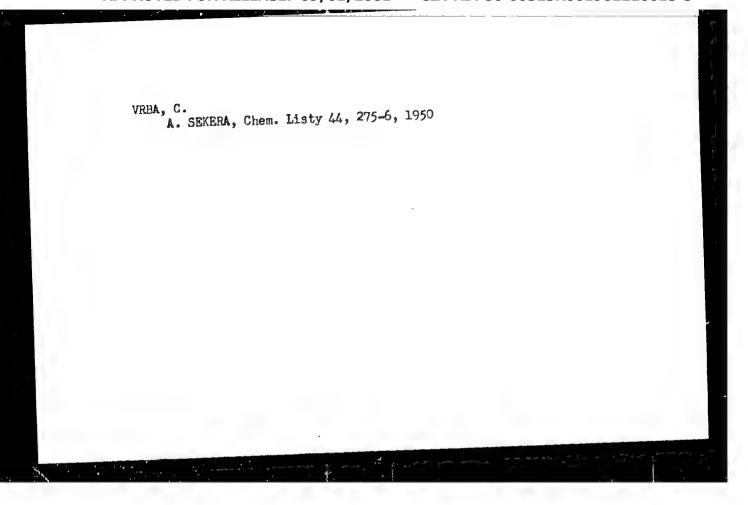
with J. LEBDUSKA and A. SEKERA

High Vet. School and Masaryk Univ., Brno, Czech.

"Local anesthetics. IV. Pharmacological evaluation of active basic esters of substituted carbamates."

Ceskoslov. farm. 1, 554-63 (1952); cf. C.A. 47, 12302e.





# DOFEK, B.; VRBA, C.

Studies of local anesthetics. XXIII.Basic acetyl mesidine. Coll Cz Chem 25 no.6:1596-1601 Je 160. (ERAI 10:9)

1. Institut fur pharmazeutische Chemie, Masaryk-Universitat, und Institut fur Pharmakologie, tierarztliche Fakultat, Landwirtscheftliche Hochschule, Brno.

(Local anosthesia) (Trimethylaniline) (Acetyl group)

#### VRBA, E.

TECHNOLOGY

Periodical: ZELEZNICAR. No. 12, Dec. 1958.

VRBA, E. Fulfilling and exceeding tasks in railroad electrification prescribed by the 11th Congress of the Communist Party of Czechoslovakia. p. 12.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3 March 1959 Unclass.

VRBA, E.

Only conscientious work will prevent accidents caused by the disconnection of trains.

P. 148, (Zeleznicar) No. 6, June 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

VRBA, E.

Area railroad transportation hubs in the new organization of railroad management. p. 98.

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy) Praha, Czechoslovakia Vol. 7, no. 4, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11. Nov. 1959 Uncl.

#### VRBA, E.

We have not written in vain. p.88

ZELEZNICAR (Ministerstvo dopravy) Praha, Czechoslavakia, No. 4, Apr. 1959

Monthly list of East European Accessions (EMMI), IC, Vol. 8, no. 7, July 1959. Uncl.

VRBA, E.

Looking forward to the 4th Congress of Trade-unions. p. 113.

ZELEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia, No. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 UNCL

VRBA, E.

Observing time limits. p. 126.

ZELEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia, No. 5, May 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959 UNCL

VRBA, E.

We must devote more care to the introduction of new technology. p. 195.

ZELEZNICNI DOPRAVA A TECHNIKA. (Ministerstvo dopravy)
Praha, Czechoslovakia
Vol. 7, no. 7, 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11. Nov. 1959 Uncl.

### VRBA, E.

The High Tatras express their thanks. p. 234.

ZEIEZNICAR. (Ministerstvo dopravy) Praha, Czechoslovakia. No. 9, Sept. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 11, November 1959.

Uncl.

VRBA, E.

Machines which help men.

P. 180, (Zeleznicar) No. 7, July 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

VRBA, E.

In the footsteps of old rationalizers.

P. 198, (Zeleznicar) No. 8, Aug. 1957, Fraha, Czechoslovakia

SO: Monthly Index of East European Acessions (EEAI) Vol. 6, No. 11 November 1957

VRBA, E.

"Railroad employees of Nove Zamky are expanding the heavy-tonnage hauling." p.240

ZELEZNICAR, (Ministertvo dopravy) Praha, Czechoslovakia No. 11, Nov. 1958

Monthly List of East European Accessions (EFAI) LC, Vol. 8, no. 6, June 1959 Uncl.

#### VRBA, E.

"Experiences from mass meetings cannot be forgotten." p. 141.

ZELEZNICAR. (Ministerstvo dopravy). Praha, Czechoslovakia, No. 6, June 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

VRBA, E.

Technical and economic problems in the foreground. p. 172 ZELEZNICAR. Praha, Czechoslovakia. Eo. 7, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

VRBA, Eugen (Praga); VLASAK, Frantisek, dr. (Praga)

An interview with Comrade Dr. Frantisek Vlasak, the new minister of transportation of Czechoslovakia. Vasut 8 no.3:2 30Ap 158.

1. "Vasut" pragai tudositoja. (for Vrba). 2. Csehszlovak Koztarsasag kozlekedesurgyi minisztere (for Vlasak).

VRBA E

Do we observe technological processes? p. 177

ZELEZNICAR. Praha, Czechoslovakia. No. 7, July 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 9, September 1959 Uncl.

VRPA, E.

The problems of design documentation.

P. 2. (ZELEZNICAR) (Praha, Czechoslovakia) No. 1, Jan. 1958

SO: Monthly Index of East European Accession (EEAI) IC Vol. 7, No. 5, 1958

### VRBA, E.

The care of man; health care of railroad employees in Hungary.

p. 256 (Zeleznicar. Vol. 5, nos. 1-6, 8; Jan.-June, Aug. 1955. No. 10, Oct. 1957. Praha, Czechoslovakia)

Monthly Index of East European Accessions (ERAI) I.C. Vol. 7, no. 2, February 1958

### VRBA, E.

Books and press in the service of Czechoslovak transportation. Tr. from the Czech.

p. 285 (Kozlekedestudomanyi Szemle. Vol. 7, no. 7/8, July/Aus. 1957. Budapest, Hungary)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

VRPA. E.

"The most reautiful gift."

p. 322 (Zeleznicar) Vol. 7, no. 12, Dec. 1957 Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) IC. Vol. 7, no. 4, April 1958

### "APPROVED FOR RELEASE: 09/01/2001

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CIA-RDP86-00513R001961210015-5"

1954 uncl.

VRBA. E.

"The Opening of the First Section of Electric Railroad Transportation in Slovakia." p. 242, (Zeleznice, Vol. 3, no. 10, 1953, Praha)

SO: Monthly List of Enstern Accessions,/Library of Congress, March

APPROVED FOR RELEASE: 09/01/2001

VRBA, E.

For a higher level of railroad transportation. p. 250. ZELEZNICE, Prague, Vol. 4, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC. Vol. 5. No. 6, June 1956, Uncl.

VRBA, E.

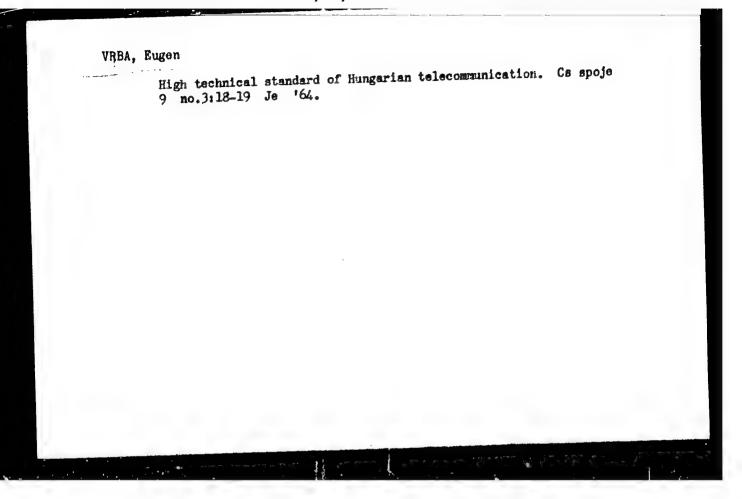
From Sokol as far as Prague. p. 260.
ZELEZNICE, Prague, Vol. 4, no. 10, Oct. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

NRSA, E.

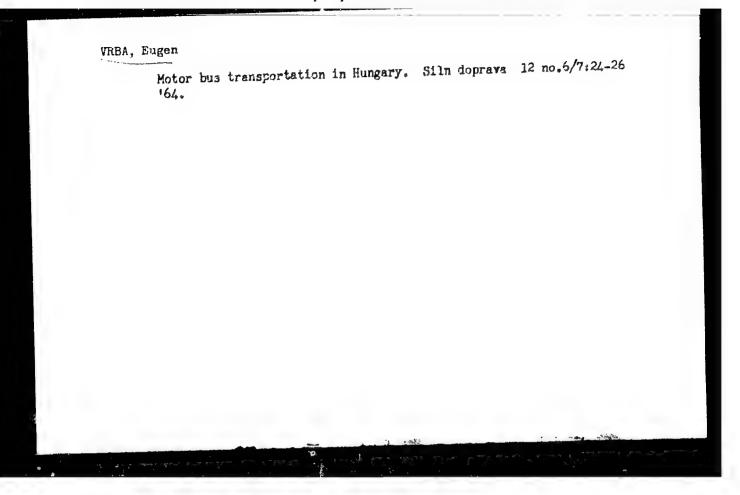
Red Pennants for outstanding economic results, p. 51. (Zeleznice, Praha, Vol. 4, no. 3, Mar. 1954)

SO: Monthly list of East European Accessions (EEAL), IC Vol 4, No. 6, June 1955, Uncl



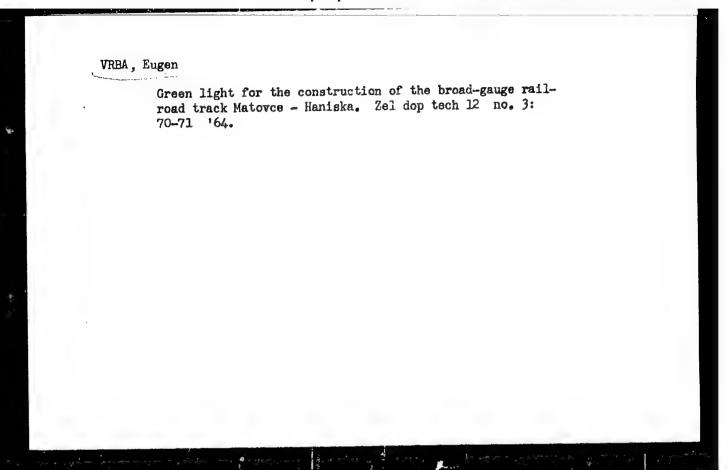
VRBA, Eugen

Faithful to the legacy of the Slovak national uprising. Siln doprava 12 no. 8:1 Ag '64.



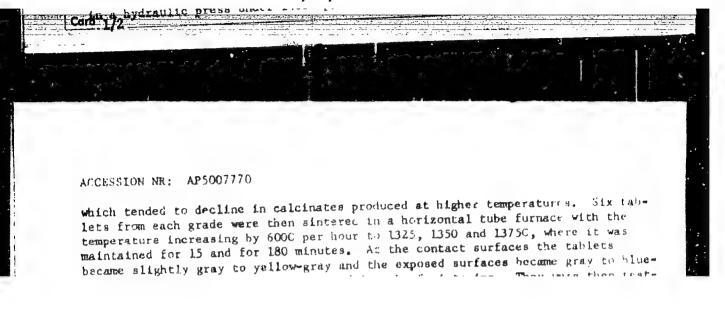
VRBA, Eugen

Regional Telecommunication Adminsitration in Prague. Cs spoje 9 no. 2:12-13 Ap '64.



1 20 40-05 37 17-2 ZPA(s) 2 ZPA(w) SWP(k)/ENT(m)/EWP(b) EWP(e) SWP(t)

ACCESSION NR: AP5007770 Z)0012/65/000/001/0025/00 z)0012/65/000/001/0025/0033 AUTHOR: Tyrolerova, P. Olember of silicate technology dept); Vrbacky, (.; Hanykyr, V. (Member of silicate technology dept) TITLE: Effect of calcinating barium titanyl oxalate on the properties of BaTiO3 SOURCE: Silibraty, no. 1, 1965, 25-33 TOPIC TAGS: barium titanyl oxalate, calcination, barium titanate, titanium oxalate, barium oxalate, sintered titanate ABSTRACT: In order to study the effects of heat and rapidly rising temperatures on the properties of BaTiO3 produced by pyrolysis of barium titanyl oxilate, BaT10(C204).4H20, many samples of the oxalate were placed in crucibles in furnaces heated 50C above the calcination temperature for three hours. After the string at temperatures of 650, 750, 850, 950, 1050 and 11500 in silite laborator curnaces, tests were made at temperatures increasing at the rate of 3C per minute and also at 10C/min. The product was a clean white powder without any discernit - cryauguanded in water and examined under a TESLA



SUBMITTED: 05Aug65

Card 2/2

Cord 2/2

Metabolic solivity of the broin in relation to muccular exercise. L. R. Vitta (inst. Achelisting Berndskrank-heiten, Prague). Physiol. Puhemasian. 3, 172-32110511.

VRBA, JAN.

Bazantnice a jine obrazky z prirody. (Vdy. 7.) Praha, Ceskoslovensky spisovatel, 1955. 187 p. (The pheasantry and other pictures from nature. 7th ed. illus.)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001961210015-5"
SO: Monthly List of East European Accessions. (EEAL), LC, Vol. 5, No. 6 June 1956, Uncl.

JRUA, TAN

Czechoslovakia/Radiophysics - Superhigh Frequencies, I-11

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 35440

Author: Vrba, Jan

Institution: None

Title: Critical Frequencies of Waveguides of Simplest Forms

Original

Periodical: Slaboproudy obzor, 1956, 17, No 3, Priloha praxe, P9-Plo; Czech

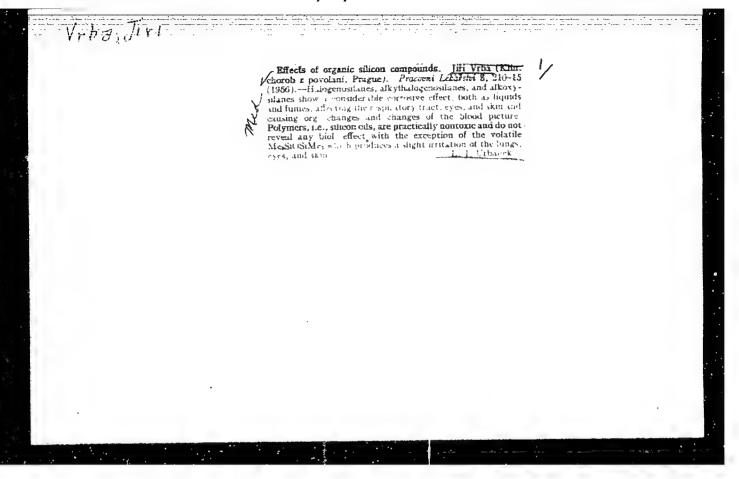
Abstract: None

Card 1/1

VRBA, JAN.

Prace na revolverovem soustruhu; strucny prehled revolverovych soustruhu a navod k praci, urceny pro praxi a odborne skoleni V Praze, Prace, 1950. 143 p. (Technicke prirucky Prace, sv. 36) Turret lathe practice; a brief survey of turret lathes and a handbook for machine shop practice and training. illus., subject index /

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 10, October 1957. Uncl.



VRBA, Jiri, MUDr.

Effect of work in preparation of silicon on health of workers.

Pracovni lek. 8 no.4:291-294 Aug 56.

1. Z klin, chorob z povolani a hyg, prace v Praze, prednosta prof. Dr. J. Teisinger.

(SILICON, injurious effects,
on workers (Cz))

(OCCUPATIONAL DISEASES,
silicon-induced lesions (Cz))

2/035/60/005/04/12/022

AUTHOR: Vrba, Jan, Engineer

TITLE: Wire Ball Bearings 1

PERIODICAL: Jemná Mechanika a Optika, 1960, No 4, pp 120-122

TEXT: The author discusses the advantages and application possibilities of ball bearings the tracks of which consist of four wires. Wire ball bearings are suitable in cases where a small profile of ball bearing is required at a large diameter of the ball race. Figure 1 shows the section of a ball bearing with four tracks. The four wires have a hardness of 450 to 500 kg/mm² according to Brinell, and are enclosed by metal rings (Figure 2). Such wire ball bearings are used in the production of precise optical instruments, the largest designs have a groove diameter of more than 6,000 mm and a loading capacity of several thousand kilograms. Figure 3 shows the constructional design of a ball bearing, depending upon the axial force (P), the radial force (Q), and the most unfavorable force (M). One ring has to be dismountable to make possible the assembly; Figure 4 shows the solution of this problem by extension of the inner screw ring. Two or more series of balls are arranged within the bearing in the case of heavy loads (Figure 5). In case of a prevalent axial load in one direction a track arrangement

Card 1/2

 Wire Ball Bearings

z/030/60/000/04/12/022

according to Figure 6 is possible. Bearings exposed to significant radial forces are equipped with an outer ring split at its radial surface; both parts of the ring are screwed together (Figure 7). Wire ball bearings are also applicable in straight-line transmission. Figure 8 shows the arrangement used in case of any type of spatially acting forces. The author underlines the required precision in machining the bearing parts and describes the methods of embedding wires into the rings. The wires are either free, or embedded in grooves (Figure 9), the advantages of these designs are mentioned. Then the article describes the assembly of wire ball bearings and the possible defects occurring, e.g. by deformations of wire, etc. The wire cross-section is shown in Figure 10; the relation between the width of the groove (b) and the diameter of the wire (d) depends on the bearing dimensions and its arrangement, and upon the load (b : d = 1 : 3 in case of a rolled groove, and b : d = 1 : 2 to 1 : 3 in case of a rough grinded groove).Finally the article deals with constructional problems of the ball bearing base, with the assembly and the starting of wire ball bearings, with lubrication problems and with questions of packing. There are 10 diagrams and 3 East German references.

ASSOCIATION: Meopta - Praha (Meopta Plant, Prague)

SUBMITTED: January 6, 1960

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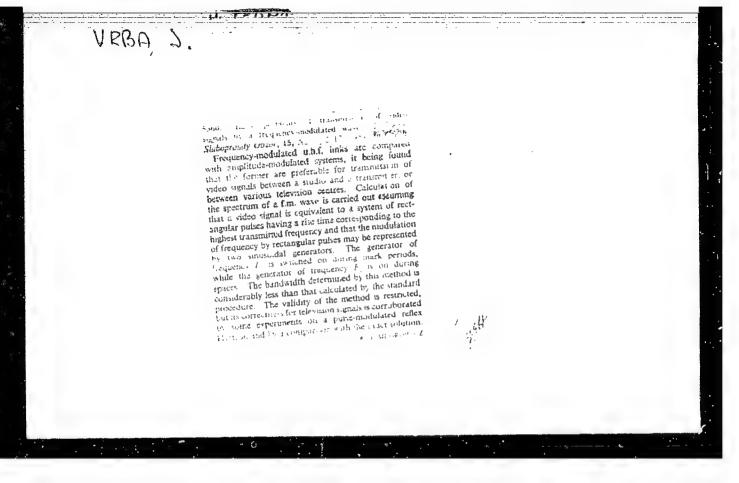
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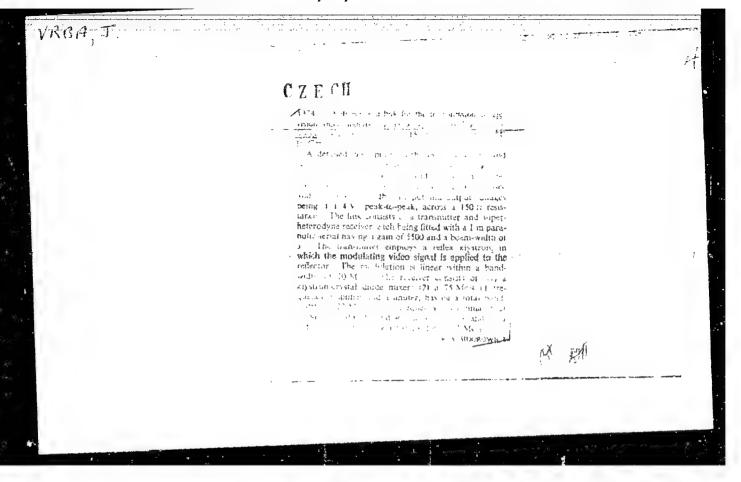
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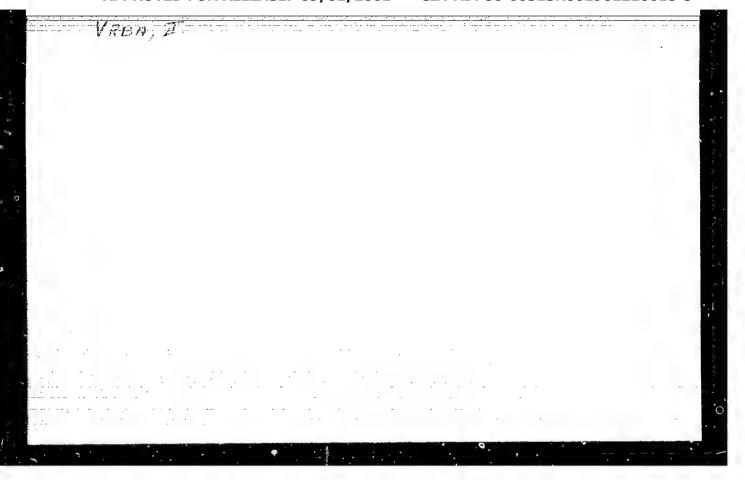
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#### CIA-RDP86-00513R001961210015-5







CZECHOSLOVAKIA/Radio Physics - Application of Radiophysical Methods I-9

Abs Jour : Ref Zhur - Fizika, No 8, 1958, No 18775

Author : Nemecek Jan, Vrba Jan

Inst : Not Given

Title : DT11 Radio Relay Line for Transmission of Television

Orig Pub : Slaboproudy obzor, 1957, 18, No 12- 839-851

Abstract : Description of a radio relay line, developed in the Research

Institute of Communication Engineering imeni Popov. The line operates in the six centimeter band. The transmitter employs a reflex klystron of two watts capacity. The length of the line is 80 km, the buildup time of the pulse is less than 65

millimicroseconds.

Card : 1/1

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## Microwave Measurements (Cont.) part the theory necessary to facilitate an understanding of the CZECH/1747 text is explained. The author thanks leading personalities of the Výzkumný ústav pro sdělovací techniku A.S. Popova (A.S. Ustav pro výzkum radiotechníky (Institute for Radiotechnical Research) in Opocinek, and Docent V. Tysl, Engineer, for their help in preparing the book. There are 117 references, of which 14 are Soviet, 18 Czech, 1 Slovak, 75 English, and 9 German. TABLE OF CONTENTS: Foreword I. Introduction 5 1. Special features of microwave technique 9 2. Some important numerical values 9 IL Review of the Microwave Transmission Line Theory 14 3. Basic relations for determining fields in waveguides 20 4. Relations for calculation of waveguide parameters 20 Card 2/6 24

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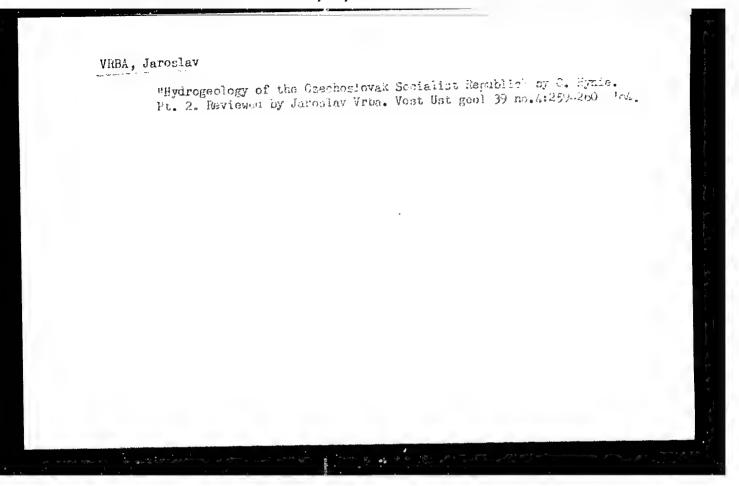
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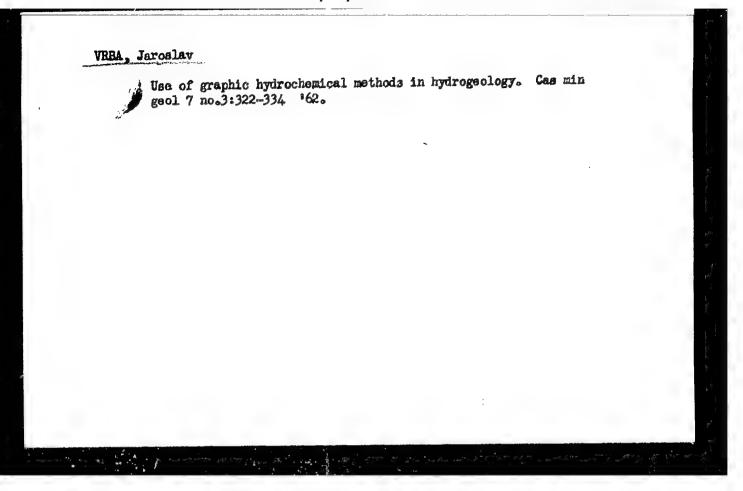
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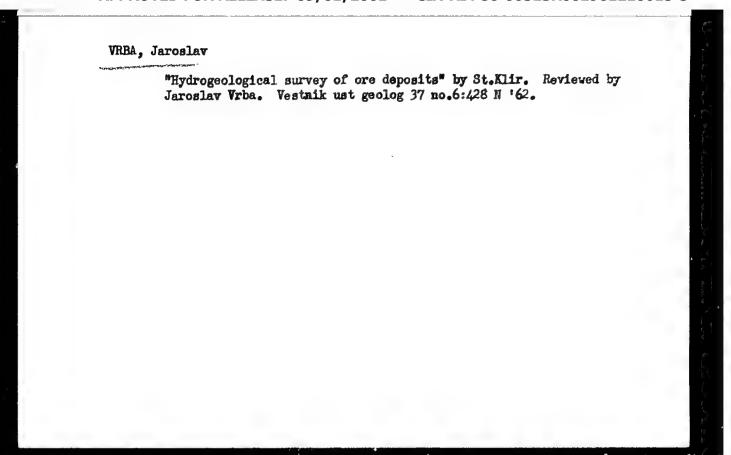
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